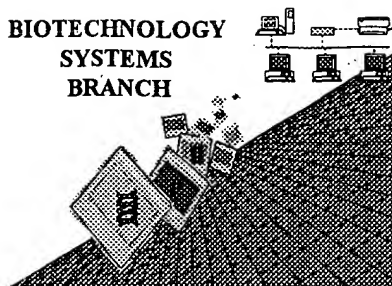


05-90
1221

RAW SEQUENCE LISTING **ERROR REPORT**

BIOTECHNOLOGY
SYSTEMS
BRANCH



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/724,427
Source: OPE
Date Processed by STIC: 12/18/01

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE **CHECKER VERSION 3.1 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by the treatment given to all mail coming via the Brentwood Mail Facility.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom, including:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)

2. U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202

3. Hand Carry directly to:

U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name,
1911 South Clark Street, Crystal Mall One, Sequence Information, Arlington, VA 22202

Or

U.S. Patent and Trademark Office, 2011 South Clark Place, Customer Window, Box Sequence, Crystal Plaza Two,
Lobby, Room 1B03, Arlington, Virginia 22202

4. Federal Express Delivery, 2011 South Clark Street, Crystal Plaza 2, Room 1B03-Mailroom, Box Sequence,
Arlington, VA 22202

Raw Sequence Listing Error Summary

ERROR DETECTED SUGGESTED CORRECTION

SERIAL NUMBER: 091724,427

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 Wrapped Nucleics The number/text at the end of each line "wrapped" down to the next line. This may occur if your file
 Wrapped Aminos was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will
 prevent "wrapping."

- 2 Invalid Line Length The rules require that a line not exceed 72 characters in length. This includes white spaces.

- 3 Misaligned Amino The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers;
 Numbering use space characters, instead.

- 4 Non-ASCII The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please
 ensure your subsequent submission is saved in ASCII text.

- 5 Variable Length Sequence(s) contain n's or Xaa's representing more than one residue. Per Sequence Rules,
 each n or Xaa can only represent a single residue. Please present the maximum number of each
 residue having variable length and indicate in the <220>-<223> section that some may be missing.

- 6 PatentIn 2.0 A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid
 "bug" sequences(s) . Normally, PatentIn would automatically generate this section from the
 previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to
 the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for
 Artificial or Unknown sequences.

- 7 Skipped Sequences Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence:
 (OLD RULES) (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
 (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
 (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
 This sequence is intentionally skipped

 Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.

- 8 Skipped Sequences Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence.
 (NEW RULES) <210> sequence id number
 <400> sequence id number
 000

- 9 ✓ Use of n's or Xaa's Use of n's and/or Xaa's have been detected in the Sequence Listing.
 (NEW RULES) Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
 In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.

- 10 Invalid <213> Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or
 Response scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or
 is Artificial Sequence

- 11 Use of <220> Sequence(s) missing the <220> "Feature" and associated numeric identifiers and responses.
 Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or
 "Unknown." Please explain source of genetic material in <220> to <223> section.
 (Sec "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)

- 12 PatentIn 2.0 Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file,
 "bug" resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence
 listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.

OIPE

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/724,427

DATE: 12/18/2001

TIME: 10:22:07

Input Set : A:\7682-053-999.txt

Output Set: N:\CRF3\12182001\I724427.raw

**Does Not Comply
Corrected Diskette Needed**

5 <110> APPLICANT: Palese, Peter
7 Garcia-Sastre, Adolfo
11 <120> TITLE OF INVENTION: RECOMBINANT NEGATIVE STRAND RNA VIRUS EXPRESSION SYSTEMS AND
12 VACCINES
16 <130> FILE REFERENCE: 7682-053-999
20 <140> CURRENT APPLICATION NUMBER: 09/724,427
22 <141> CURRENT FILING DATE: 2000-11-28
26 <150> PRIOR APPLICATION NUMBER: 09/396,539
28 <151> PRIOR FILING DATE: 1999-09-14
32 <160> NUMBER OF SEQ ID NOS: 63
36 <170> SOFTWARE: PatentIn version 3.0
40 <210> SEQ ID NO: 1
42 <211> LENGTH: 21
44 <212> TYPE: DNA
46 <213> ORGANISM: Influenza virus
50 <400> SEQUENCE: 1
51 tacgaggaaa tggtcctgtt a 21
54 <210> SEQ ID NO: 2
56 <211> LENGTH: 19
58 <212> TYPE: PRT
60 <213> ORGANISM: Influenza virus
64 <400> SEQUENCE: 2
66 Gln Leu Val Trp Met Ala Cys Asn Ser Ala Ala Phe Glu Asp Leu Arg
67 1 5 10 15
69 Val Leu Ser
72 <210> SEQ ID NO: 3
74 <211> LENGTH: 16
76 <212> TYPE: PRT
78 <213> ORGANISM: Influenza virus
82 <400> SEQUENCE: 3
84 Thr Tyr Gln Arg Thr Arg Gln Leu Val Arg Leu Thr Gly Met Asp Pro
85 1 5 10 15
87 <210> SEQ ID NO: 4
89 <211> LENGTH: 95
91 <212> TYPE: DNA
93 <213> ORGANISM: Influenza virus
97 <400> SEQUENCE: 4
98 gaagcttaat acgactcact ataagtagaa acaagggtgt tttttcatat catttaaact 60
100 tcaccctgct ttgctgaat tcattcttct gcagg 95
103 <210> SEQ ID NO: 5
105 <211> LENGTH: 95
107 <212> TYPE: DNA
109 <213> ORGANISM: Influenza virus
113 <400> SEQUENCE: 5
114 gaagcttaat acgactcact ataagcaaaa gcagggtgaa gtttaaatga tatgaaaaaa 60
116 cacccttggt tctactgaat tcattcttct gcagg 95
119 <210> SEQ ID NO: 6

Error on p. 7

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/724,427

DATE: 12/18/2001

TIME: 10:22:07

Input Set : A:\7682-053-999.txt

Output Set: N:\CRF3\12182001\I724427.raw

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121 <211> LENGTH: 68
123 <212> TYPE: DNA
125 <213> ORGANISM: Influenza virus
129 <400> SEQUENCE: 6
130 agcttaatac gactcactat aagatctatt aaacttcacc ctgcttttgc tgaattcatt 60
132 cttctgca 68
135 <210> SEQ ID NO: 7
137 <211> LENGTH: 60
139 <212> TYPE: DNA
141 <213> ORGANISM: Influenza virus
145 <400> SEQUENCE: 7
146 gaagaatgaa ttcagcaaaa gcagggtgaa gtttaataga tcttatagtg agtcgtatta 60
149 <210> SEQ ID NO: 8
151 <211> LENGTH: 42
153 <212> TYPE: DNA
155 <213> ORGANISM: Influenza virus
159 <400> SEQUENCE: 8
160 ccgaattctt aatacgactc actataagta gaaacaaggg tg 42
163 <210> SEQ ID NO: 9
165 <211> LENGTH: 30
167 <212> TYPE: DNA
169 <213> ORGANISM: Influenza virus
173 <400> SEQUENCE: 9
174 cctctagacg ctcgagagca aaagcaggtg 30
177 <210> SEQ ID NO: 10
179 <211> LENGTH: 15
181 <212> TYPE: RNA
183 <213> ORGANISM: Influenza virus
187 <400> SEQUENCE: 10
188 caccugcuu uugcu 15
191 <210> SEQ ID NO: 11
193 <211> LENGTH: 15
195 <212> TYPE: RNA
197 <213> ORGANISM: Influenza virus
201 <400> SEQUENCE: 11
202 caccugcuu uuacu 15
205 <210> SEQ ID NO: 12
207 <211> LENGTH: 15
209 <212> TYPE: RNA
211 <213> ORGANISM: Influenza virus
215 <400> SEQUENCE: 12
216 caccugcuu cugcu 15
219 <210> SEQ ID NO: 13
221 <211> LENGTH: 15
223 <212> TYPE: RNA
225 <213> ORGANISM: Influenza virus
229 <400> SEQUENCE: 13
230 caccuguuu uugcu 15
233 <210> SEQ ID NO: 14

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RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/724,427

DATE: 12/18/2001

TIME: 10:22:07

Input Set : A:\7682-053-999.txt

Output Set: N:\CRF3\12182001\I724427.raw

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235 <211> LENGTH: 16
237 <212> TYPE: RNA
239 <213> ORGANISM: Influenza virus
243 <400> SEQUENCE: 14
244 caccuugcu uuugcu 16
247 <210> SEQ ID NO: 15
249 <211> LENGTH: 15
251 <212> TYPE: RNA
253 <213> ORGANISM: Influenza virus
257 <400> SEQUENCE: 15
258 caccuguuu uuacu 15
261 <210> SEQ ID NO: 16
263 <211> LENGTH: 15
265 <212> TYPE: RNA
267 <213> ORGANISM: Influenza virus
271 <400> SEQUENCE: 16
272 caccuguuu cugcu 15
275 <210> SEQ ID NO: 17
277 <211> LENGTH: 16
279 <212> TYPE: RNA
281 <213> ORGANISM: Influenza virus
285 <400> SEQUENCE: 17
286 caccuugcu uuacu 16
289 <210> SEQ ID NO: 18
291 <211> LENGTH: 16
293 <212> TYPE: RNA
295 <213> ORGANISM: Influenza virus
299 <400> SEQUENCE: 18
300 caccuuguu uuacu 16
303 <210> SEQ ID NO: 19
305 <211> LENGTH: 16
307 <212> TYPE: RNA
309 <213> ORGANISM: Influenza virus
313 <400> SEQUENCE: 19
314 caccuuguu ucuacu 16
317 <210> SEQ ID NO: 20
319 <211> LENGTH: 96
321 <212> TYPE: DNA
323 <213> ORGANISM: Influenza virus
327 <400> SEQUENCE: 20
328 ctacacgcc tgcagcaaaa gcagggtgac aaagacataa tggagaaaaa aatcactggg 60
330 tataccaccg ttgatatac ccaatcgcat cgtaaa 96
333 <210> SEQ ID NO: 21
335 <211> LENGTH: 96
337 <212> TYPE: DNA
339 <213> ORGANISM: Influenza virus
343 <400> SEQUENCE: 21
344 gttcttttac atgcgattgg gatataca cggtggtata ccagtgatt tttttctcca 60
346 ttatgtcttt gtcaccctgc ttttgctgca gggcgt 96

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/724,427

DATE: 12/18/2001

TIME: 10:22:07

Input Set : A:\7682-053-999.txt

Output Set: N:\CRF3\12182001\I724427.raw

```

349 <210> SEQ ID NO: 22
351 <211> LENGTH: 34
353 <212> TYPE: DNA
355 <213> ORGANISM: Influenza virus
359 <400> SEQUENCE: 22
360 actgcgatga gtggcagggc ggggcgtaat agat 34
363 <210> SEQ ID NO: 23
365 <211> LENGTH: 38
367 <212> TYPE: DNA
369 <213> ORGANISM: Influenza virus
373 <400> SEQUENCE: 23
374 ctagatctat tacgccccgc cctgccactc atcgcagt 38
377 <210> SEQ ID NO: 24
379 <211> LENGTH: 34
381 <212> TYPE: DNA
383 <213> ORGANISM: Influenza virus
387 <400> SEQUENCE: 24
388 actgcgatga gtggcagggc ggggcgtaat agat 34
391 <210> SEQ ID NO: 25
393 <211> LENGTH: 38
395 <212> TYPE: DNA
397 <213> ORGANISM: Influenza virus
401 <400> SEQUENCE: 25
402 ctagatctat tacgccccgc cctgccactc atcgcagt 38
405 <210> SEQ ID NO: 26
407 <211> LENGTH: 97
409 <212> TYPE: DNA
411 <213> ORGANISM: Influenza virus
415 <400> SEQUENCE: 26
416 ctagacgcc tgacgaaaa gcagggtgac aaagacataa tggagaaaaa aaatcactgg 60
418 gtataccacc gttgatatat cccaatcgca tcgtaaa 97
421 <210> SEQ ID NO: 27
423 <211> LENGTH: 96
425 <212> TYPE: DNA
427 <213> ORGANISM: Influenza virus
431 <400> SEQUENCE: 27
432 gttcttttacg atgcgattgg gatatatcaa cggtggtata cccagtgatt tttttctcca 60
434 ttatgtcttt gtcaccctgc ttttgctgca gggcgt 96
437 <210> SEQ ID NO: 28
439 <211> LENGTH: 30
441 <212> TYPE: DNA
443 <213> ORGANISM: Influenza virus
447 <400> SEQUENCE: 28
448 cggaattctc ttcgagcgaa agcaggagtt 30
451 <210> SEQ ID NO: 29
453 <211> LENGTH: 51
455 <212> TYPE: DNA
457 <213> ORGANISM: Influenza virus
461 <400> SEQUENCE: 29

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RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/724,427

DATE: 12/18/2001

TIME: 10:22:07

Input Set : A:\7682-053-999.txt

Output Set: N:\CRF3\12182001\I724427.raw

```

462 catgggtgag ttctgaccaa aatctagatt ataaaatagg atacatatgc a      51
465 <210> SEQ ID NO: 30
467 <211> LENGTH: 51
469 <212> TYPE: DNA
471 <213> ORGANISM: Influenza virus
475 <400> SEQUENCE: 30
476 catgggtgag ttctgaccaa aatctagatt ataaaatagg atacatatgc a      51
479 <210> SEQ ID NO: 31
481 <211> LENGTH: 43
483 <212> TYPE: DNA
485 <213> ORGANISM: Influenza virus
489 <400> SEQUENCE: 31
490 aatgtatcct attttataat ctagattttg gtcgaaactc acc      43
493 <210> SEQ ID NO: 32
495 <211> LENGTH: 24
497 <212> TYPE: DNA
499 <213> ORGANISM: Influenza virus
503 <400> SEQUENCE: 32
504 ggccactagt aggtcgacgc cggc      24
507 <210> SEQ ID NO: 33
509 <211> LENGTH: 22
511 <212> TYPE: DNA
513 <213> ORGANISM: Influenza virus
517 <400> SEQUENCE: 33
518 gcgctggcca tcttgccagc ca      22
521 <210> SEQ ID NO: 34
523 <211> LENGTH: 17
525 <212> TYPE: DNA
527 <213> ORGANISM: Influenza virus
531 <400> SEQUENCE: 34
532 agaaaaaaat cactggg      17
535 <210> SEQ ID NO: 35
537 <211> LENGTH: 17
539 <212> TYPE: DNA
541 <213> ORGANISM: Influenza virus
545 <400> SEQUENCE: 35
546 ttacgccccg ccctgcc      17
549 <210> SEQ ID NO: 36
551 <211> LENGTH: 23
553 <212> TYPE: DNA
555 <213> ORGANISM: Influenza virus
559 <400> SEQUENCE: 36
560 ggcgcacgat aggtcgacgc cgg      23
563 <210> SEQ ID NO: 37
565 <211> LENGTH: 55
567 <212> TYPE: DNA
569 <213> ORGANISM: Influenza virus
573 <400> SEQUENCE: 37
574 ggccatcgat ccaatggtta ttattttctg gtttgattc atcttgccag ttggg      55

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VERIFICATION SUMMARY

PATENT APPLICATION: US/09/724,427

DATE: 12/18/2001

TIME: 10:22:08

Input Set : A:\7682-053-999.txt

Output Set: N:\CRF3\12182001\I724427.raw

L:725 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:47

L:725 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47

<210> 47

<211> 12

<212> RNA

<213> Influenza virus

<220>

<221> misc_feature

<223> n = c or u

→ <222> required - must give location of n
See error summary sheet item 9

<400> 47

ccugcuuung cu